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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/603,743	06/26/2003	Saburo Kamiya	116388	4858	
25944 7:	590 07/27/2005		EXAMINER		
	RRIDGE, PLC	RUTLEDGE, DELLA J			
P.O. BOX 19928 ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER	
			2851		
			DATE MAILED: 07/27/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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-		Applica	tion No.	Applicant(s)		
Office Action Summary		10/603	743	KAMIYA, SABURO		
		Examin	er	Art Unit		
		D. Rutle	_ <u> </u>	2851		
Period fo	 The MAILING DATE of this community 	cation appears on t	he cover sheet with the	correspondence addr	'ess	
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIOnsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this community of the period for reply specified above is less than thirty (30 period for reply is specified above, the maximum stature to reply within the set or extended period for reply vireply received by the Office later than three months afined patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no unication. days, a reply within the s utory period will apply and will, by statute, cause the a	event, however, may a reply be to tatutory minimum of thirty (30) dal will expire SIX (6) MONTHS from the polication to become ABANDON	imely filed ys will be considered timely. In the mailing date of this come ED (35 U.S.C. § 133).	munication.	
Status				•		
1) 又	Responsive to communication(s) filed	d on 18 April 2005.				
•=	This action is FINAL . 2b)⊠ This action is non-final.					
3)						
Disposit	ion of Claims					
5)□ 6)⊠ 7)⊠	Claim(s) <u>1-22</u> is/are pending in the appear to the above claim(s) is/are Claim(s) is/are allowed. Claim(s) <u>1-16,18,19,21,22</u> is/are rejected to Claim(s) <u>17 and 20</u> is/are objected to Claim(s) are subject to restrict	e withdrawn from o cted.				
Applicat	ion Papers					
9)[The specification is objected to by the	Examiner.				
10)	The drawing(s) filed on is/are:	a) accepted or	b)□ objected to by the	Examiner.		
	Applicant may not request that any object	tion to the drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).		
11)	Replacement drawing sheet(s) including The oath or declaration is objected to	•	= : :			
Priority (under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority of None of: 2. Certified copies of the priority of None of: 3. Copies of the certified copies of the priority of Copies of the certified copies of the priority of the priority of the certified copies of the priority of the certified copies of the priority of the priority of the priority of the priority of the certified copies	documents have be documents have be of the priority documental Bureau (PCT R	een received. een received in Applica ments have been receivule 17.2(a)).	tion No ved in this National Si	tage	
Attachmer	nt(s)					
	ce of References Cited (PTO-892)		4) Interview Summar			
3) 🔲 Infor	ce of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449 or F er No(s)/Mail Date		Paper No(s)/Mail I 5) Notice of Informal 6) Other:	Pate Patent Application (PTO-1	52)	

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DETAILED ACTION

Request for Continued Examination

 The Request for Continued Examination along with the required fee and the submission of an Amendment was received on 18 April 2005 and have been "Entered".

Claims Previously Allowed Now Rejected

Claims previously allowed are now rejected, see the following paragraphs. The
 Office regrets any inconvenience this may cause the applicant.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1 11 16, 18, 19, 21, 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Naoyuki (JP 9-283432).

The reference has an exposure apparatus (see Figs. 2, 3) for producing a pattern from a mask onto a substrate or object. The movable body (x-y stage 26) having a reflective surface (the interferometer mirror) and moving with the object to be measured (substrate). The measuring unit 30 is in the space 42a, 46 is temperature controlled based on sensor 36, 38 by controlling the reheater 20 (the temperature adjusting unit). The holder of the optical system for interferometer 30 is not labeled, but the holder which is in the space 42a, 46 would be influenced by the temperature in the space. The

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projection optical system is on the frame forming the chamber, the holder or holding unit being one of the walls of the frame of the chamber. The interferometer detects/senses information that is perpendicular to the projection optical system. The temperature is measured at an area near the optical path of the measuring beam by sensor 36, 38. - clms 1, 4, 10, 11, 15, 18, 21, 22

There is a gas supply (blower 22), controller 14 - Clms 2, 3

The object to be measured is substrate – clm 5, 16

The reference does not disclose detecting focusing data or an alignment marks, however, focusing would be an inherent operation to be performed in an exposure apparatus. One of ordinary skill in the art would know that an improperly focused relationship between the mask and substrate would result in useless patterns and would have known how to use a focus detecting means and alignment marks to focus the mask and substrate. – clms 6-9, 13,14,19

The temperature adjusting unit is attached the frame forming the chamber of the space 42a, 46 see Fig. 1, components 16,18,32; Fig. 2, component 24a– clm 10, 20

5. Kamiya (US Pat. No. 4,989,031) is similar to Naoyuki reference above and can be used to reject the same claims. To simplify the Action the rejection will not be made. Hara et al. (US Pat. No. 6,616,898 has an interferometer reflecting means on a stage, movable body, and measuring projection means 7 that are temperature controlled by temperature control means 28 and gas supply 12, 13a. The holding member for the measuring projection means is not shown.

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Allowable Subject Matter

- 6. Claims 17 and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. The following is a statement of reasons for the indication of allowable subject matter: The prior art does not suggest or teach holding member fixed to a frame separately provided from a base member on which the movable body is arranged; nor a temperature adjusting unit that can adjust the measurement optical system and the holding member independently of each other.

Response Data

Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. Rutledge whose telephone number is (571) 272-2127. The examiner can normally be reached on Mon - Thurs, 6:00 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D. Rutledge Primary Examiner Art Unit 2851

dr 7/24/05